

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting at the intersection of MD 940 (Owings Mill Blvd) and Red Run Blvd in Baltimore County. A second left turn lane is being added to the east leg of Red Run Blvd. by Baltimore County. All work will be done by Baltimore County forces. MD 940 (Owings Mills Blvd) is assumed to run in a north - south direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA eight-phase, fully-actuated mode, with MD 940 (Owings Mill Blvd) approaches running concurrently. The Exclusive left turn phases for both approaches to MD 940 (Owings Mill Blvd) shall remain in operation. A new Countdown pedestrian phase with audible pushbutton actuation shall be provided across the south leg of MD 940 (Owings Mill Blvd). The Exclusive left turn phases for both approaches of Red Run Blvd shall remain in operation. The Red Run Blvd approaches shall also continue to run concurrently.
- The existing full-traffic-actuated, eight-phase controller with video interface and all necessary equipment, housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.
- There will be no changes to the signal operation with this revision.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

4. APS will function as follows:

FOR MD 940 (OWINGS MILLS BLVD)

- When pedestrian locates and presses pushbutton for an extended time, the pushbutton unit will be "Wait to cross Owings Mills Boulevard"
- When WALK phase begins, the message will be a rapid tick which will last for the duration of the WALK phase.

The contact persons for District #4 are as follows:

~~Mr. Randolph Scott~~ **Mr. Erin Kuhn**
Assistant District Engineer - Traffic
Phone: (410) ~~321-2704~~ **229-2381**

~~Mr. Steve Maciszewski~~ **Andre Futrell**
Assistant District Engineer - Maintenance
Phone: (410) ~~321-2764~~ **229-2361**

Mr. Michael Pasquariello
District Engineer - Utility
Phone: (410) ~~321-2644~~ **229-2341**

Mr. Richard L. Doff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Mr. Sonny Bailey
Sign Shop
410-787-7670

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

NO.	DESCRIPTION	QUANTITY
?	Video Camera	1 EA
?	Coax Cable	250 LF

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY BALTIMORE COUNTY.

DESCRIPTION

BALTIMORE COUNTY TO INSTALL EQUIPMENT NOTED IN "A" AND F&I THE R3-5L SIGN.

F&I 12" one-way, three section (RA, YA, GA) sign, hand, mounted.

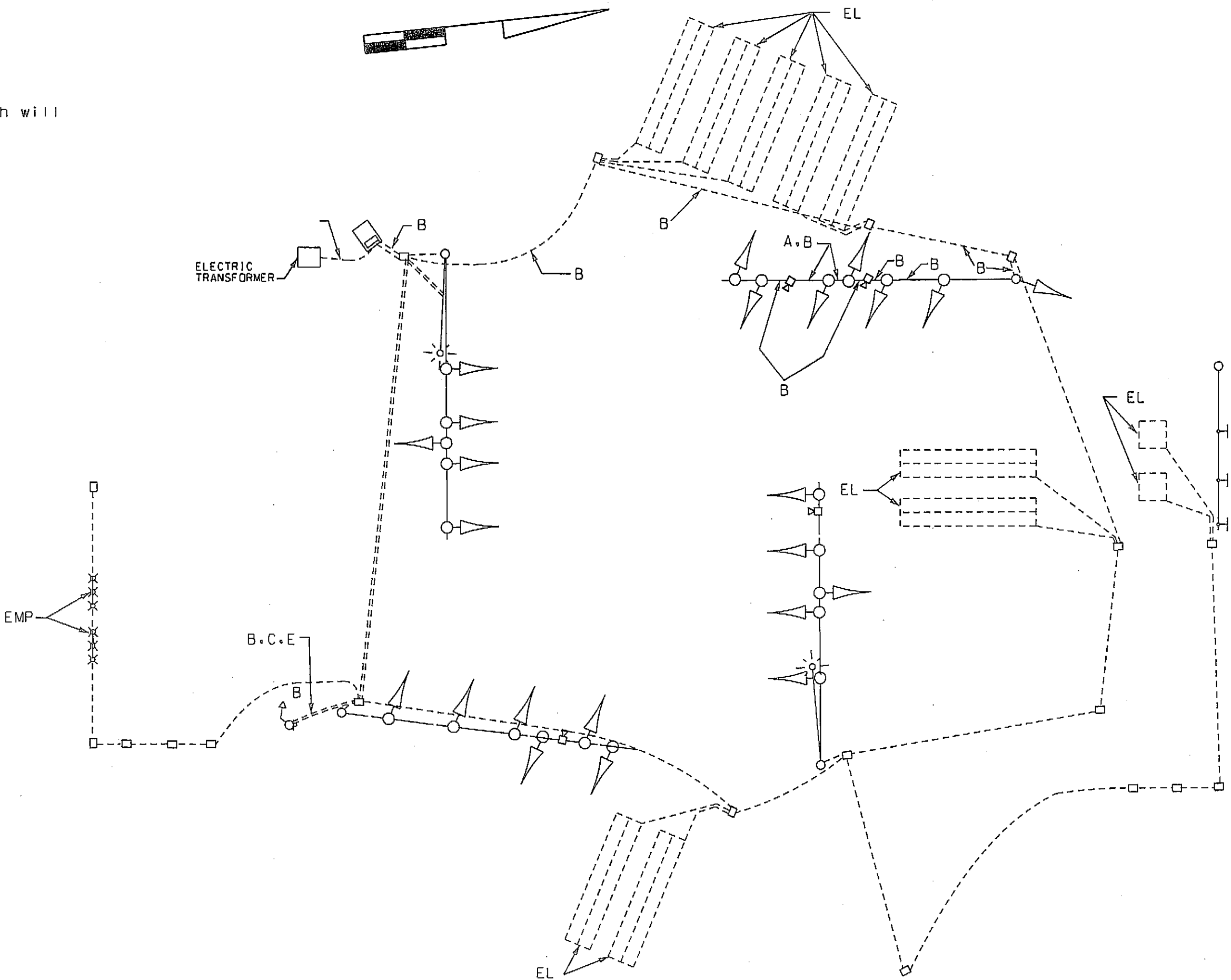
C. EQUIPMENT TO BE REMOVED

N/A

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
PHASE 1 & 5	←R	←R	←R	R	R	←G	←G	←G	R	R	←R	←R	←R	←R	R	R	←R	←R	←R	←R	R	R	DW	DW
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6																								
PHASE 1 & 6	←G	←G	←G	G	G	←R	←R	←R	R	R	←R	←R	←R	←R	R	R	←R	←R	←R	←R	R	R	DW	DW
1 & 6 CHANGE	←Y	←Y	←Y	G	G	←R	←R	←R	R	R	←R	←R	←R	←R	R	R	←R	←R	←R	←R	R	R	DW	DW
PHASE 2 & 5	←R	←R	←R	R	R	←G	←G	←G	G	G	←R	←R	←R	←R	R	R	←R	←R	←R	←R	R	R	DW	DW
2 & 5 CHANGE	←R	←R	←R	R	R	←Y	←Y	←Y	G	G	←R	←R	←R	←R	R	R	←R	←R	←R	←R	R	R	DW	DW
PHASE 2 & 6	←R	←R	←R	G	G	←R	←R	←R	G	G	←R	←R	←R	←R	R	R	←R	←R	←R	←R	R	R	DW	DW
2 & 6 CHANGE	←R	←R	←R	Y	Y	←R	←R	←R	Y	Y	←R	←R	←R	←R	R	R	←R	←R	←R	←R	R	R	DW	DW
PHASE 3 & 7	←R	←R	←R	R	R	←R	←R	←R	R	R	←G	←G	←G	←G	R	R	←G	←G	←G	←G	R	R	DW	DW
CHANGES TO PHASES 3 & 8, 4 & 7, 4 & 8																								
PHASE 3 & 8	←R	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	←R	←R	R	R	←G	G	←G	←G	G	G	DW	DW
3 & 8 CHANGE	←R	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	←R	←R	R	R	←Y	G	←Y	←Y	G	G	DW	DW
PHASE 4 & 7	←R	←R	←R	R	R	←R	←R	←R	R	R	←G	G	←G	←G	G	G	←R	R	←R	←R	R	R	DW	DW
4 & 7 CHANGE	←R	←R	←R	R	R	←R	←R	←R	R	R	←Y	G	←Y	←Y	G	G	←R	R	←R	←R	R	R	DW	DW
PHASE 4 & 8	←R	←R	←R	R	R	←R	←R	←R	R	R	←G	G	←G	←G	G	G	←R	G	←R	←R	G	G	DW	DW
4 & 8 CHANGE	←R	←R	←R	R	R	←R	←R	←R	R	R	←R	Y	←R	←R	Y	Y	←R	Y	←R	←R	Y	Y	DW	DW
PHASE 4 & 7 ALT	←R	←R	←R	R	R	←R	←R	←R	R	R	←G	G	←G	←G	G	G	←R	R	←R	←R	R	R	WK	WK
4 & 7 ALT CHANGE	←R	←R	←R	R	R	←R	←R	←R	R	R	←Y	G	←Y	←Y	G	G	←R	R	←R	←R	R	R	WK	WK
PHASE 4 & 8 ALT	←R	←R	←R	R	R	←R	←R	←R	R	R	←R	G	←R	←R	G	G	←R	G	←R	←R	G	G	WK	WK
PED CLEAR / COUNTDOWN	←R	←R	←R	R	R	←R	←R	←R	R	R	←R	G	←R	←R	G	G	←R	G	←R	←R	G	G	FL/DW	FL/DW
4 & 8 ALT CHANGE	←R	←R	←R	R	R	←R	←R	←R	R	R	←R	Y	←R	←R	Y	Y	←R	Y	←R	←R	Y	Y	DW	DW
FLASHING OPERATION	FL/←R	FL/←R	FL/←R	FL/Y	FL/Y	FL/←R	FL/←R	FL/←R	FL/Y	FL/Y	FL/←R	FL/←R	FL/←R	FL/←R	FL/R	FL/R	FL/←R	FL/←R	FL/←R	FL/←R	FL/R	FL/R	DARK	DARK

WIRING DIAGRAM



WIRING KEY

- A - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B - COAX CABLE
- EMP - EXISTING NON-INVASIVE MICROLOOP
- EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING
- ES - EXISTING UNDERGROUND SERVICE TO BE INSTALLED BY BGE

BW097M83
MD 940 @ red Run Boulevard

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 940 (OWINGS MILLS BLVD) AND RED RUN BLVD

GENERAL INFORMATION SHEET

SCALE NONE DATE 11/28/2011 CONTRACT NO. 4479385-105

DESIGNED BY JWA COUNTY BALTIMORE
DRAWN BY RC LOGMILE 03094000.00
CHECKED BY _____ TMS NO. _____
F.A.P. NO. _____ TOD NO. _____

TS NO. 3467D DRAWING NO. 2 OF 2 SHEET NO. OF

REVISION "D"
BALTIMORE COUNTY T.E.
BALTIMORE COUNTY
Traffic Design Team
Traffic Engineering
John
Transportation & Planning
Baltimore County
Department of Public Works
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111 W. Calverton Avenue, Suite 315
Towson, Maryland 21204
410-321-2551

REVISION "C"
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Glen Burnie, MD 21061
Ph (410) 590-5500
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